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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/648,455	08/28/2000	Tomio Iwasaki	500.38949X00	5434
20457	7590 07/31/2002			
ANTONELLI TERRY STOUT AND KRAUS SUITE 1800 1300 NORTH SEVENTEENTH STREET			EXAMINER	
			OWENS, DOUGLAS W	
ARLINGTON	, VA 22209		ART UNIT	PAPER NUMBER
			2811	
			DATE MAILED: 07/31/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Hn.				
-	Application No.	Applicant(s)				
Offic Acti - Summan	09/648,455	IWASAKI ET AL.				
Offic Acti n Summary	Examiner	Art Unit				
The MAIL INC DATE of this communication are	Douglas W Owens	2811				
The MAILING DATE of this communication appears on the cover sheet with the c rrespondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 13 M	<u>1ay 2002</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-4 and 10</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>4 and 10</u> is/are allowed.						
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.						
7)⊠ Claim(s) <u>3</u> is/are objected to.	7)⊠ Claim(s) <u>3</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
	priority under 35 H S C & 119(a)	h-(d) or (f)				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)	, priority under 50 0.0.0. 33 120	GING OF TE L.				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)				

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DETAILED ACTION

Allowable Subject Matter

- 1. The indicated allowability of claim 1 is withdrawn in view of the newly discovered reference(s) to Friedman et al. and Kusano et al. Rejections based on the newly cited reference(s) follow.
- 2. Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 3. Claims 4 and 10 are allowed.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over US patent No. 6,239,703 to Friedman et al. in view of Japanese patent No. 363230845A to Kusano et al.

Friedman et al. teaches a semiconductor device with a conductor (80) on a substrate. Friedman et al. does not teach a conductor comprising aluminum as a main constituent and containing copper and nickel. Kusano et al. teaches a conductor comprising aluminum as a main constituent and containing copper and nickel. It would have been obvious to one of ordinary skill in the art to incorporate conductor taught by

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experimentation.

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Kusano et al. into the device taught by Friedman et al. since it is a known material that is suitable for the intended use.

Regarding claim 2, neither Kusano et al. nor Friedman et al. teach a semiconductor device, wherein the spacing of the conductors is not more than 0.4 microns. It would have been a matter of obviousness for one having ordinary skill to in the art to arrive at the optimal spacing of the conductors through routine

Any inquiry concerning this communication or earlier communications from the

Conclusion

examiner should be directed to Douglas W Owens whose telephone number is 703-

308-6167. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tom Thomas can be reached on 703-308-2772. The fax phone numbers for

the organization where this application or proceeding is assigned are 703-308-7722 for

regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

DWO

July 28, 2002

Steven Loke

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